

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/671,773C
Source: IFW/6
Date Processed by STIC: 11/9/04

ENTERED



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/671,773C

DATE: 11/09/2004

TIME: 16:29:58

Input Set : A:\MSB 7272.ST25.txt
 Output Set: N:\CRF4\11092004\I671773C.raw

3 <110> APPLICANT: Pan, Clark
 4 Tsutsumi, Manami
 5 Shanafelt, Armen B.
 7 <120> TITLE OF INVENTION: Pituitary Adenylate Cyclase Activating Peptide (PACAP)

Receptor 3

8 (R3) Agonists an Their Pharmacological Methods of Use

10 <130> FILE REFERENCE: MSB 7272P2

12 <140> CURRENT APPLICATION NUMBER: US 09/671,773C

13 <141> CURRENT FILING DATE: 2000-09-27

15 <150> PRIOR APPLICATION NUMBER: US 09/595,280

16 <151> PRIOR FILING DATE: 2000-06-15

18 <150> PRIOR APPLICATION NUMBER: US 09/407,832

19 <151> PRIOR FILING DATE: 1999-09-28

21 <160> NUMBER OF SEQ ID NOS: 343

23 <170> SOFTWARE: PatentIn version 3.3

25 <210> SEQ ID NO: 1

26 <211> LENGTH: 28

27 <212> TYPE: PRT

28 <213> ORGANISM: Artificial

30 <220> FEATURE:

31 <223> OTHER INFORMATION: Synthetic Construct

34 <220> FEATURE:

35 <221> NAME/KEY: MOD_RES

36 <222> LOCATION: (28)..(28)

37 <223> OTHER INFORMATION: AMIDATION

39 <400> SEQUENCE: 1

41 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln

42 1 5 10 15

45 Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn

46 20 25

49 <210> SEQ ID NO: 2

50 <211> LENGTH: 38

51 <212> TYPE: PRT

52 <213> ORGANISM: Artificial

54 <220> FEATURE:

55 <223> OTHER INFORMATION: Synthetic Construct

58 <220> FEATURE:

59 <221> NAME/KEY: MOD_RES

60 <222> LOCATION: (38)..(38)

61 <223> OTHER INFORMATION: AMIDATION

63 <400> SEQUENCE: 2

65 His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln

66 1 5 10 15

69 Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu Gly Lys Arg Tyr Lys

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/671,773C

DATE: 11/09/2004
TIME: 16:29:58

Input Set : A:\MSB 7272.ST25.txt
Output Set: N:\CRF4\11092004\I671773C.raw

70 20 25 30
73 Gln Arg Val Lys Asn Lys
74 35
77 <210> SEQ ID NO: 3
78 <211> LENGTH: 30
79 <212> TYPE: PRT
80 <213> ORGANISM: Artificial
82 <220> FEATURE:
83 <223> OTHER INFORMATION: Synthetic Construct
86 <220> FEATURE:
87 <221> NAME/KEY: MOD_RES
88 <222> LOCATION: (30)..(30)
89 <223> OTHER INFORMATION: AMIDATION
91 <400> SEQUENCE: 3
93 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
94 1 5 10 15
97 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg
98 20 25 30
101 <210> SEQ ID NO: 4
102 <211> LENGTH: 39
103 <212> TYPE: PRT
104 <213> ORGANISM: Artificial
106 <220> FEATURE:
107 <223> OTHER INFORMATION: Synthetic Construct
110 <220> FEATURE:
111 <221> NAME/KEY: MOD_RES
112 <222> LOCATION: (39)..(39)
113 <223> OTHER INFORMATION: AMIDATION
115 <400> SEQUENCE: 4
117 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
118 1 5 10 15
121 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
122 20 25 30
125 Ser Gly Ala Pro Pro Pro Ser
126 35
129 <210> SEQ ID NO: 5
130 <211> LENGTH: 31
131 <212> TYPE: PRT
132 <213> ORGANISM: Artificial
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Synthetic Construct
138 <220> FEATURE:
139 <221> NAME/KEY: MOD_RES
140 <222> LOCATION: (1)..(1)
141 <223> OTHER INFORMATION: ACETYLATION
143 <220> FEATURE:
144 <221> NAME/KEY: MISC_FEATURE
145 <222> LOCATION: (17)..(17)
146 <223> OTHER INFORMATION: Nle

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/671,773C

DATE: 11/09/2004

TIME: 16:29:58

Input Set : A:\MSB 7272.ST25.txt
 Output Set: N:\CRF4\11092004\I671773C.raw

148 <220> FEATURE:
 149 <221> NAME/KEY: MOD_RES
 150 <222> LOCATION: (31)..(31)
 151 <223> OTHER INFORMATION: AMIDATION
 153 <400> SEQUENCE: 5
 155 His Ser Asp Ala Val Phe Thr Glu Asn Tyr Thr Lys Leu Arg Lys Gln
 156 1 5 10 15
 W--> 159 Xaa Ala Ala Lys Lys Tyr Leu Asn Asp Leu Lys Lys Gly Gly Thr
 160 20 25 30
 163 <210> SEQ ID NO: 6
 164 <211> LENGTH: 31
 165 <212> TYPE: PRT
 166 <213> ORGANISM: Artificial
 168 <220> FEATURE:
 169 <223> OTHER INFORMATION: Synthetic Construct
 172 <220> FEATURE:
 173 <221> NAME/KEY: MOD_RES
 174 <222> LOCATION: (1)..(1)
 175 <223> OTHER INFORMATION: ACETYLATION
 177 <220> FEATURE:
 178 <221> NAME/KEY: MOD_RES
 179 <222> LOCATION: (31)..(31)
 180 <223> OTHER INFORMATION: AMIDATION
 182 <400> SEQUENCE: 6
 184 His Ser Asp Ala Val Phe Thr Glu Asn Tyr Thr Lys Leu Arg Lys Gln
 185 1 5 10 15
 188 Leu Ala Ala Lys Lys Tyr Leu Asn Asp Leu Lys Lys Gly Gly Thr
 189 20 25 30
 192 <210> SEQ ID NO: 7
 193 <211> LENGTH: 31
 194 <212> TYPE: PRT
 195 <213> ORGANISM: Artificial
 197 <220> FEATURE:
 198 <223> OTHER INFORMATION: Synthetic Construct
 201 <220> FEATURE:
 202 <221> NAME/KEY: MOD_RES
 203 <222> LOCATION: (1)..(1)
 204 <223> OTHER INFORMATION: ACETYLATION
 206 <400> SEQUENCE: 7
 208 His Ser Asp Ala Val Phe Thr Glu Asn Tyr Thr Lys Leu Arg Lys Gln
 209 1 5 10 15
 212 Leu Ala Ala Lys Lys Tyr Leu Asn Asp Leu Lys Lys Gly Gly Thr
 213 20 25 30
 216 <210> SEQ ID NO: 8
 217 <211> LENGTH: 31
 218 <212> TYPE: PRT
 219 <213> ORGANISM: Artificial
 221 <220> FEATURE:
 222 <223> OTHER INFORMATION: Synthetic Construct

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/671,773C

DATE: 11/09/2004

TIME: 16:29:58

Input Set : A:\MSB 7272.ST25.txt
 Output Set: N:\CRF4\11092004\I671773C.raw

225 <220> FEATURE:
 226 <221> NAME/KEY: PEPTIDE
 227 <222> LOCATION: (1)..(31)
 229 <400> SEQUENCE: 8
 231 His Ser Asp Ala Val Phe Thr Glu Asn Tyr Thr Lys Leu Arg Lys Gln
 232 1 5 10 15
 235 Leu Ala Ala Lys Lys Tyr Leu Asn Asp Leu Lys Lys Gly Gly Thr
 236 20 25 30
 239 <210> SEQ ID NO: 9
 240 <211> LENGTH: 28
 241 <212> TYPE: PRT
 242 <213> ORGANISM: Artificial
 244 <220> FEATURE:
 245 <223> OTHER INFORMATION: Synthetic Construct
 248 <220> FEATURE:
 249 <221> NAME/KEY: MOD_RES
 250 <222> LOCATION: (1)..(1)
 251 <223> OTHER INFORMATION: ACETYLATION
 253 <220> FEATURE:
 254 <221> NAME/KEY: MISC_FEATURE
 255 <222> LOCATION: (10)..(10)
 256 <223> OTHER INFORMATION: Xaa is methoxy-Tyr
 258 <220> FEATURE:
 259 <221> NAME/KEY: MISC_FEATURE
 260 <222> LOCATION: (17)..(17)
 261 <223> OTHER INFORMATION: Nle
 263 <220> FEATURE:
 264 <221> NAME/KEY: MOD_RES
 265 <222> LOCATION: (28)..(28)
 266 <223> OTHER INFORMATION: AMIDATION
 268 <400> SEQUENCE: 9
 W--> 270 His Ser Asp Ala Val Phe Thr Glu Asn Xaa Thr Lys Leu Arg Lys Gln
 271 1 5 10 15
 274 Xaa Ala Ala Lys Lys Tyr Leu Asn Asp Leu Lys Lys
 275 20 25
 278 <210> SEQ ID NO: 10
 279 <211> LENGTH: 28
 280 <212> TYPE: PRT
 281 <213> ORGANISM: Artificial
 283 <220> FEATURE:
 284 <223> OTHER INFORMATION: Synthetic Construct
 287 <220> FEATURE:
 288 <221> NAME/KEY: PEPTIDE
 289 <222> LOCATION: (1)..(28)
 291 <400> SEQUENCE: 10
 293 His Ser Asp Ala Val Phe Thr Glu Asn Tyr Thr Lys Leu Arg Lys Gln
 294 1 5 10 15
 297 Leu Ala Ala Lys Lys Tyr Leu Asn Asp Leu Lys Lys
 298 20 25

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/671,773C

DATE: 11/09/2004

TIME: 16:29:58

Input Set : A:\MSB 7272.ST25.txt
Output Set: N:\CRF4\11092004\I671773C.raw

301 <210> SEQ ID NO: 11
302 <211> LENGTH: 28
303 <212> TYPE: PRT
304 <213> ORGANISM: Artificial
306 <220> FEATURE:
307 <223> OTHER INFORMATION: Synthetic Construct
310 <220> FEATURE:
311 <221> NAME/KEY: MOD_RES
312 <222> LOCATION: (28)..(28)
313 <223> OTHER INFORMATION: AMIDATION
315 <400> SEQUENCE: 11
317 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
318 1 5 10 15
321 Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Lys Lys
322 20 25
325 <210> SEQ ID NO: 12
326 <211> LENGTH: 31
327 <212> TYPE: PRT
328 <213> ORGANISM: Artificial
330 <220> FEATURE:
331 <223> OTHER INFORMATION: Synthetic Construct
334 <220> FEATURE:
335 <221> NAME/KEY: PEPTIDE
336 <222> LOCATION: (1)..(31)
338 <400> SEQUENCE: 12
340 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
341 1 5 10 15
344 Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Lys Lys Gly Gly Thr
345 20 25 30
348 <210> SEQ ID NO: 13
349 <211> LENGTH: 31
350 <212> TYPE: PRT
351 <213> ORGANISM: Artificial
353 <220> FEATURE:
354 <223> OTHER INFORMATION: Synthetic Construct
357 <220> FEATURE:
358 <221> NAME/KEY: PEPTIDE
359 <222> LOCATION: (1)..(31)
361 <400> SEQUENCE: 13
363 His Ser Asp Ala Val Phe Thr Glu Asn Tyr Thr Lys Leu Arg Lys Gln
364 1 5 10 15
367 Leu Ala Ala Lys Lys Tyr Leu Asn Asp Leu Leu Asn Gly Gly Thr
368 20 25 30
371 <210> SEQ ID NO: 14
372 <211> LENGTH: 31
373 <212> TYPE: PRT
374 <213> ORGANISM: Artificial
376 <220> FEATURE:
377 <223> OTHER INFORMATION: Synthetic Construct

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/09/2004
PATENT APPLICATION: US/09/671,773C TIME: 16:29:59

Input Set : A:\MSB_7272.ST25.txt
Output Set: N:\CRF4\11092004\I671773C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos. 17
Seq#:9; Xaa Pos. 10,17

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51
Seq#:52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75
Seq#:76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99
Seq#:100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117
Seq#:118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135
Seq#:136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153
Seq#:154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171
Seq#:172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189
Seq#:190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207
Seq#:208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225
Seq#:226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243
Seq#:244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261
Seq#:262,263,264,265,266,267,268,269,270,271,272,273,274,275,276,277,278,279
Seq#:280,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297
Seq#:298,299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314,315
Seq#:316,317,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333
Seq#:334,335,336,337,338,339,340,341,342,343

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/671,773C

DATE: 11/09/2004

TIME: 16:29:59

Input Set : A:\MSB 7272.ST25.txt

Output Set: N:\CRF4\11092004\I671773C.raw

L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16

L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0

M:341 Repeated in SeqNo=9